

# Recombinant Human CLEC7A Protein (T66-M247), Flag tagged

Cat. No. CLEC7A-0623H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Dectin-1(T66-M247 end)-Flag Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	T66-M247
<b>Description</b>	Lectin that functions as pattern recognizing receptor (PRR) specific for beta-1,3-linked and beta-1,6-linked glucans, which constitute cell wall constituents from pathogenic bacteria and fungi. Necessary for the TLR2-mediated inflammatory response and activation of NF-kappa-B: upon beta-glucan binding, recruits SYK via its ITAM motif and promotes a signaling cascade that activates some CARD domain-BCL10-MALT1 (CBM) signalosomes, leading to the activation of NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines. Enhances cytokine production in macrophages and dendritic cells. Mediates production of reactive oxygen species in the cell. Mediates phagocytosis of C.albicans conidia. Binds T-cells in a way that does not involve their surface glycans and plays a role in T-cell activation. Stimulates T-cell proliferation. Induces phosphorylation of SCIMP after binding beta-glucans.
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	µg of the protein
<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	CLEC7A C-type lectin domain family 7, member A [ Homo sapiens (human) ]
<b>Official Symbol</b>	CLEC7A
<b>Synonyms</b>	CLEC7A; C-type lectin domain family 7, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 12, CLECSF12; C-type lectin domain family 7 member A; dectin 1; hDectin 1; dectin-1; beta-glucan receptor; lectin-like receptor 1; DC-associated C-type lectin 1; C-type lectin superfamily member 12; dendritic cell-associated C-type lectin 1; dendritic cell-associated C-type lectin-1; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 12; BGR; CANDF4; DECTIN1; CLECSF12;
<b>Gene ID</b>	64581
<b>mRNA Refseq</b>	NM_022570

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**Protein Refseq** NP\_072092

**MIM** 606264

**UniProt ID** Q9BXN2

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